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SESSION RESUMED IN FILE 'REGISTRY' AT 11:10:36 ON 09 JAN 97  
FILE 'REGISTRY' ENTERED AT 11:10:36 ON 09 JAN 97  
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=> d his

(FILE 'HOME' ENTERED AT 10:14:44 ON 09 JAN 97)

FILE 'REGISTRY' ENTERED AT 10:15:04 ON 09 JAN 97

E CETRORELIX  
L1 1 S E3  
E BOMBESIN  
L2 242 S E3  
E BOMBESIN/CN  
L3 1 S E3  
E PROTIRELIN  
L4 1 S E3

=> e somatostatin/cn

E1 1 SOMATORELIN/CN  
E2 1 SOMATOSALM/CN  
E3 2 --> SOMATOSTATIN/CN  
E4 1 SOMATOSTATIN (AMIA CALVA REDUCED)/CN  
E5 1 SOMATOSTATIN (AMPHIUMA TRIDACTYLUM)/CN  
E6 1 SOMATOSTATIN (ANGUILLA ANGUILLA)/CN  
E7 1 SOMATOSTATIN (HUMAN)/CN  
E8 1 SOMATOSTATIN (HYDROLAGUS COLLIEI)/CN  
E9 1 SOMATOSTATIN (LOPHIUS AMERICANUS REDUCED)/CN  
E10 1 SOMATOSTATIN (LOPHIUS AMERICANUS)/CN  
E11 1 SOMATOSTATIN (MAMMALIAN-REDUCED)/CN  
E12 1 SOMATOSTATIN (MYXINE GLUTINOSA)/CN

=> s e3

L5 2 SOMATOSTATIN/CN

=> s l1 or l3 or l4 or l5

L6 5 L1 OR L3 OR L4 OR L5

=> file hcaplus

FILE 'HCAPLUS' ENTERED AT 11:12:18 ON 09 JAN 97  
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FILE COVERS 1967 - 9 Jan 1997 VOL 126 ISS 2  
FILE LAST UPDATED: 9 Jan 1997 (970109/ED)

For information on changes to CA General Subject Index  
terms in 1997, see the CAS Web search aid at

STN 08/468145; 1/9/97

<http://www.cas.org/terms/vocab.html>

=> s l6

L7 17904 L6

=> s l7 and lyophil?

11647 LYOPHIL?

L8 35 L7 AND LYOPHIL?

=> s l8 and py<1994

11518711 PY<1994

L9 30 L8 AND PY<1994

=> s l9 and water

1144296 WATER

L10 4 L9 AND WATER

=> d bib ab 1-

L10 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 1997 ACS

AN 1992:113531 HCAPLUS

DN 116:113531

TI Solvent systems for production of drug microspheres

IN Yamakawa, Ichiro; Machida, Ryoichi; Watanabe, Sumio

PA Eisai Co., Ltd., Japan

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

PI EP 461630 A2 911218

DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE

AI EP 91-109610 910612

PRAI JP 90-152849 900613

JP 90-152850 900613

JP 91-48579 910222

DT Patent

LA English

AB Upon incorporation of a drug into microspheres by oil/**water** solvent evapn., a mixed solvent of .gtoreq.1 **water**-insol. solvent and .gtoreq.1 **water**-miscible solvent is used as a solvent of an oil phase. The oil phase may also comprise fatty acids or salts thereof, glycerin fatty acid esters, and propylene glycol fatty acid esters. The resulting microspheres contain the drug at a high concn. and slowly release from the initial stage after administration. Thus, neurotensin analog 20 and poly(DL-lactic acid) 200 mg were dissolved in 0.6 mL of methylene chloride/EtOH (5:1 by vol.) and the resulting soln. was dispersed in 200 mL of a 0.5 % aq. soln. of PVA. The dispersion was stirred for 3 h to conduct oil/**water** solvent evapn. so that an oil phase was solidified. Microspheres thus formed were collected by a centrifugal separator and **lyophilized** into powder. The drug content in the microspheres was 21.5 %, vs. 10.4 % for the control microspheres produced in a similar manner except that 0.6 mL of methylene chloride was used instead of the mixed solvent.

L10 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 1997 ACS

AN 1990:145467 HCAPLUS

DN 112:145467

TI Preparation of a somatostatin injection in hospital pharmacy

AU Hoshino, Nobuo; Yamakawa, Masayuki; Nishida, Yumiko; Ono, Takeshi; Shimakawa, Harumi  
CS Hosp. Pharm., Shiga Univ. Med. Sci., Otsu, 520-21, Japan  
SO Yakuzai-gaku (1989), 49(3), 263-7  
CODEN: YAKUA2; ISSN: 0372-7629  
DT Journal  
LA Japanese  
AB Two types of somatostatin (I) injections, I soln. and lyophilized I, were prepd. and investigated from the view points of both stability in moist heat sterilization and stability during storage under various environmental conditions. In I soln., I was dissolved in 50 mM acetate buffer (pH 4 and 5) and phosphate buffer (pH 6, 7 and 8) at a concn. of 250  $\mu$ g/mL, dispensed into ampuls and then sterilized by moist heat. In lyophilized I, I was dissolved in water, dispensed into ampuls, and then lyophilized. In order to measure the stability of the preps., residual somatostatin content was detd. by HPLC and residual biol. potency by bioassay. In moist heat sterilization, I soln. was stable at pH 4 but not at higher pH. During 1 yr storage, I soln. at 3.degree. in the dark was more stable than at room temp. (20.degree.), and its decompn. was <5% under any of the three conditions (at 3.degree. in the dark, at room temp. in the dark and at room temp. under scattered light) for 1 yr.

L10 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 1997 ACS  
AN 1984:17886 HCAPLUS  
DN 100:17886  
TI Characterization of rat placental TRH-like material and the ontogeny of placental and fetal brain TRH  
AU Shambaugh, George E., III; Kubek, Michael; Wilber, John F.  
CS Sch. Med., Northwestern Univ., Chicago, IL, 60611, USA  
SO Placenta (1983), 4(4), 329-37  
CODEN: PLACDF; ISSN: 0143-4004  
DT Journal  
LA English  
AB TRH [24305-27-9] immunol. and biol. activity was characterized in rat placental exts. Placentas were extd. sequentially with 2N AcOH and glacial AcOH. The lyophilized residues were further extd. with 90% MeOH, and the exts. were then dried and reextd. with distd. water. When a 100,000-g supernatant fraction of this ext. was utilized for characterization, TRH extd. from the placenta was similar to synthetic TRH by 4 criteria: parallelism of immunoassay inhibition curves, similarity of elution vols. after Sephadex G-10 chromatog., TRH biol. activity (TSH release from rat pituitaries in vitro), and identity on high-pressure liq. chromatog. Between the 16th and 20th day of gestation, placental TRH activity increased nearly 3-fold, from 10.9 to 29.7 pg/mg protein. Changes of a similar magnitude were apparent in the fetal brain (6.0 to 18.9 pg/mg protein). Hence, TRH activity in the rat placenta increases with gestational age in a pattern similar to that described previously for certain placental protein hormones and developmental changes in fetal brain TRH.

L10 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 1997 ACS  
AN 1981:154861 HCAPLUS  
DN 94:154861  
TI Production of antigens containing bradykinin and somatostatin

PA Otsuka Pharmaceutical Co., Ltd., Japan  
SO Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF  
PI JP 56016414 810217 Showa  
AI JP 79-92781 790720  
DT Patent  
LA Japanese  
AB An Ascaris suum ext. is a more effective carrier of haptens like somatostatin and bradykinin than serum albumins. Thus, an antigen, somatostatin-Ascaris ext.-carbodiimide complex, was prepd. by reacting somatostatin (1.0 mg) dissolved in 200 .mu.L water with Ascaris ext. (10.3 mg) in a .5 mM borate buffer (0.15M NaCl, pH 8.0), then adding 50 .mu.g carbodiimide in 500 .mu.L water, and adjusting the pH at 6.5 with 1N HCl. The reaction mixt. was dialyzed at 4.degree. for 5 h against water; this dialysis was repeated 4 times. The yield of the antigen complex after the lyophilization was 12.4 mg.

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L5 2 S E3  
L6 5 S L1 OR L3 OR L4 OR L5

FILE 'HCAPLUS' ENTERED AT 11:12:18 ON 09 JAN 97

L7 17904 S L6  
L8 35 S L7 AND LYOPHIL?  
L9 30 S L8 AND PY<1994  
L10 4 S L9 AND WATER

=> file reg

FILE 'REGISTRY' ENTERED AT 11:16:36 ON 09 JAN 97

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STRUCTURE FILE UPDATES: 3 JAN 97 HIGHEST RN 184695-79-2  
DICTIONARY FILE UPDATES: 8 JAN 97 HIGHEST RN 184695-79-2

TSCA INFORMATION NOW CURRENT THROUGH JUNE 1996

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

=> s acetic acid/cn

L11 1 ACETIC ACID/CN

=> s l8 and l11

1 LYOPHIL?

L12 0 L8 AND L11

=> file caplus

FILE 'CAPLUS' ENTERED AT 11:17:24 ON 09 JAN 97

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FILE COVERS 1967 - 9 Jan 1997 VOL 126 ISS 2

FILE LAST UPDATED: 9 Jan 1997 (970109/ED)

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For information on changes to CA General Subject Index terms in 1997, see the CAS Web search aid at <http://www.cas.org/terms/vocab.html>

=> s l8 and l11

17904 L6

11647 LYOPHIL?

45618 L11

L13 1 L8 AND L11

=> d bib ab

L13 ANSWER 1 OF 1 CAPLUS COPYRIGHT 1997 ACS

AN 1994:587330 CAPLUS

DN 121:187330

TI Preparation of a cetorelix lyophilized composition

IN Engel, Juergen; Sauerbier, Dieter; Wichert, Burkhard; Reissmann, Thomas

PA Asta Medica AG, Germany

SO Eur. Pat. Appl., 5 pp.

CODEN: EPXXDW

PI EP 611572 A2 940824

DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

AI EP 94-101672 940204

PRAI DE 93-4305225 930219

DT Patent

LA German

AB A lyophilizate of a peptide with 3-15 amino acid residues (e.g. cetorelix) and .gtoreq.1 optional matrix materials (e.g. mannitol) is prepd. by dissolving in 100-10,000 wt. parts AcOH, dilg. with water, and lyophilizing the resulting soln. The lyophilizate is useful for prepn. of a medication for treatment of female infertility and protection of the gonads from the follicular hyperstimulation seen with other infertility treatments.

=> d bib ab l10 1-

NO ANSWERS DISPLAYED.

THE ANSWER SET WAS CREATED IN FILE 'HCAPLUS'.

USE THE FILE COMMAND TO CHANGE TO THE CORRECT FILE.

You have entered a file that is not in the current file environment.  
Enter "DISPLAY HISTORY" to see a list of the files in the current environment.

=> filoe hcaplus

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"HELP COMMANDS" at an arrow prompt (=>).

=> file hcaplus

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FILE COVERS 1967 - 9 Jan 1997 VOL 126 ISS 2

FILE LAST UPDATED: 9 Jan 1997 (970109/ED)

For information on changes to CA General Subject Index  
terms in 1997, see the CAS Web search aid at

<http://www.cas.org/terms/vocab.html>

=> d bib ab 110 1-

L10 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 1997 ACS

AN 1992:113531 HCAPLUS

DN 116:113531

TI Solvent systems for production of drug microspheres

IN Yamakawa, Ichiro; Machida, Ryoichi; Watanabe, Sumio

PA Eisai Co., Ltd., Japan

SO Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

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DS R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE

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SO Yakuzaigaku (1989), 49(3), 263-7  
CODEN: YAKUA2; ISSN: 0372-7629  
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SO Placenta (1983), 4(4), 329-37  
CODEN: PLACDF; ISSN: 0143-4004  
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SO Jpn. Kokai Tokkyo Koho, 7 pp.  
CODEN: JKXXAF  
PI JP 56016414 810217 Showa  
AI JP 79-92781 790720  
DT Patent  
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=> log y